ROSSLARE

AC-215

Single and Double Door Access Control Unit Hardware Installation Guide

September 2003

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About this manual

This manual is intended for anybody installing and or commissioning the AC-215 access control system.

We recommend that this manual be read in full before the Veritrax software and AC-215 Access Control System installed.

Introduction to AC-215 ACU

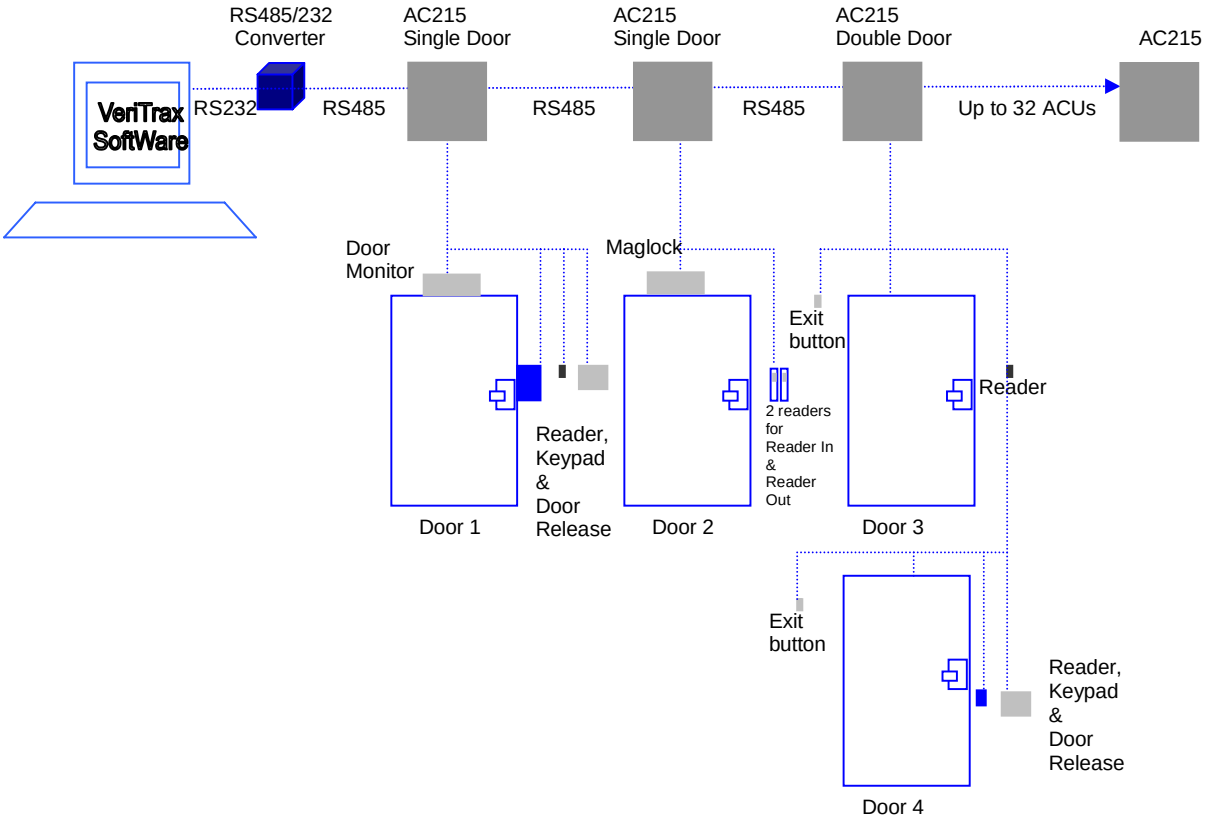
The AC-215, access control system, and the Veritrax PC software are combination that gives full control over the entrances of your premises. Veritrax software supports control for both single and double door entrances where up to 32 AC-215 Access Control Units (ACU) can be monitored.

AC-215 employs the latest technology to meet the requirements of the market. Up to 64 doors and 5000 users can be supported using the Veritrax software. The product's flash memory enables easy firmware upgrades.

Veritrax software, which is user friendly and intuitive, defines settings and event logs. A single server, communicating to and from the ACU, can serve unlimited network clients.
The system's database is saved in the server. The database can be set to backup and can import/export previous configurations. Clients are able to modify the database, for example, define new employees and/or their access permissions.

Veritrax can be run on Windows 98, 2000, NT and XP.

The following diagram is an example of how the Veritrax and AC-215 system can be set up.



Main Features

AC-215

- Two IN/OUT readers
- Four Inputs
- Four Outputs
- Optional secure mode that requires card and PIN entry
- Antipassback real and time with forgive feature
- Up to 4 different site codes
- Automatic operation by time zone for every output
- Optional first person delay before automatic door unlocking
- Optional expanded lock operation time
- Activated auxiliary output by reader transactions or authorized users
- Door and panel Alarms - door forced , door held open, door held open alert and tamper alarm
- Programmable relock when opening/closing doors
- Man trap door in double door configuration
- Built in sounder generator for chime, bell and siren signals

System

- Up to 32 ACU can be connected together
- Controls up to 64 doors
- 5000 users
- 5000 log events
- 64 holidays
- 32 time zones
- 128 access groups

AC-215 Single and Double Door Access

The access to an entrance is first set as either single or double door in the Veritrax software, this definition is then downloaded to the panel.

- **Single Door Controller**

This access type has two readers, IN or OUT

Outputs: Door lock strike

Auxiliary output

Alarm output

General purpose output

Inputs: Release to exit

Door monitor input

Tamper input

General purpose input

- **Double Door Controller**

This access type has two readers, IN or OUT

Outputs: Door 1 lock strike

Door 1 alarm output

Door 2 lock strike

Door 2 alarm output

Inputs: Release to exit door1

Door 1 monitor input

Release to exit door 2

Door 2 monitor input

Software

Veritrax software is user friendly and intuitive. Its graphic interface is used to define settings, which are downloaded to the ACU and event logs which are uploaded to the PC to generate reports. A single server, which communicates to and from the ACU, can serve unlimited network clients.

The system's database is saved in the server. The database can be set to backup and can input/export previous configurations. Clients are able to modify the database, for example, define new employees and their access permissions.

The software enables features to be added as and when they are required. The modular software enables the user interface to be as powerful and strong as required and yet remains simple to use. The software can be set for automatic backup on a periodic basis.

Veritrax can be run on Windows 98, 2000, NT and XP.

Technical Specifications

This chapter discusses the technical specification required for the system.

Electrical Specifications

Main Unit

Operating Voltage:	12V DC 0.5A From PS-14
Maximum Input Current:	(Not including attached devices) Standby: 125mA Maximum: 325mA

Outputs

Relay Outputs:	5A Relay N.O. and N.C. options

Inputs

General Inputs:	High impedance active low inputs. Maximum voltage: 5V DC
Reader's Electrical requirements:	Voltage: 12V DC Max Current: 300mA

Indicators and Annunciators

Visual:	8 LEDs
Audio:	Built in sounder (Bell, Chime and Siren)
Speaker's Electrical Characteristics:	8 ohm, 750mW

Environmental Specifications

Operating Temperature:	-25°F to 145°F (-31°C to 63°C)
Operating Humidity:	0 to 95% (Non-condensing)

Mechanical Specifications

Enclosure's Dimensions:	10.4” (264mm) L x 13.2” (334mm) W x 3.4” (84.5mm) D
Weight:	8.31 lbs (3.77 kg)

Inputs and Outputs

This chapter discusses the AC-215 ACU input and output requirements.

Inputs

Release to Exit Button (REX)

REX enables quick exit from a premises. The following should be defined:

Single door controller:	Door 1 - IN1
Double door controller:	Door 1 - IN 1
	Door 2 - IN 2

Usually the REX input is connected to a push button that is located inside the premises. The push button opens a door without reading a proximity card or PIN code.
Generally, the REX is located in a convenient position, for example, near Reception, and is always set as enabled in the Veritrax software.

Door Monitor

The Door Monitor connects to a door's micro switch for door status monitoring. The following should be defined:

Single door controller:	Door 1 - IN1A
Double door controller:	Door 1 - IN 1A
	Door 2 - IN 2A

Two alarm states can be generated:

- Forced alarm- When the door is forcibily opened by unauthorized persons
- Door held open alarm- When the door is open for a period exceeding the lock strike programmed open time

A Door held open alert can be generated by activating chime on speaker to remind that the door should be close.

After the ACU enables access, the lock is activated according to its programmed time until one of the following occurs:

- The ACU stops lock activation immediately after the door opens
- The ACU waits for the door to close. (This can help to reduce tailgating)

When the door open time period expires the ACU ends lock activation.

Tamper

The Tamper input connects to a tamper micro switch assembled within the ACU panel. The following should be defined:

Single door controller: Door 1 – IN2

Tamper input is activated when the panel is opened through vandalism. The system has two additional tamper inputs on the reader terminals.

General

The General input connect to any general-purpose dry contact input.

Single door controller: Door 1 – IN2A

This function can be used when activating the general-purpose output connections (for example, alarm sensors, monitoring power supply failure, etc.). The ACU reports activation if this input changes status.

The system has four output relays. Their contacts are voltage free and rated 5A at 12V AC or DC. This indicates that output is very versatile and can operate virtually any electrical equipment including Fail Open and Fail Close locks, electric gates and so on.

Outputs

We recommend using a suppression diode for all outputs.

Door Lock

There are two types of door locking devices:

- Fail open (fail secure)
- Fail close (fail safe)

The user can select either normally open or normally closed output contacts.

The following should be defined:

Single door controller: Door 1 – OUT1

Double door controller: Door 1 – OUT1
Door 2 – OUT2

The output can sink current from any power supply (see page 28). In a time zone door locking is activated in the following modes:

- Grant Access
- Automatic Relock

Door Alarm

This output is activated when either an alarm occurs in the system, or automatically by a time zone. The following should be defined:

Single door controller:	Door 1 – OUT1A
Double door controller:	Door 1 – OUT1A
	Door 2 – OUT2A

The output can be activated for a specified time and closes when the timer ends

Auxiliary

This output is activated when a transaction occurs in the readers that are either associated with auxiliary, or automatically by a time zone. The following should be defined:

Single door controller:	Door 1 – OUT2

The output has two activations modes:

- Time – active for a specified time and closes when the timer ends.
- Toggle – active for every change in the output trigger. The trigger changes state.

General

This output is usually related to the general input or automatically by a time zone. The following should be defined:

Single door controller:	Door 1 – OUT2A

The output has three activation modes:

- Follow input – output follows the input state
- Toggle – active for every change in the output trigger. The trigger changes state
- Time – active for a specified time and closes when the timer ends

Card Readers

Two card readers can be connected to the ACU. The following should be defined:

Single door controller:	Door 1 – Reader 1 IN/OUT/auxiliary
	Reader 2 IN/OUT/auxiliary
Double door controller:	Door 1 – Reader 1 IN/OUT
	Door 2 – Reader 2 IN/OUT

The readers can be assigned to a single or double door controller's door as an IN or OUT reader and can activate the auxiliary output in a single door configuration.

The reader's tamper connects to the ACU and can generate an alarm. The reader's green LED input is activated by the ACU when in the Card and PIN secure mode to inform the user to enter his personal PIN number after entering his card.

Keypad

Two keypads can be alternatively connected to the ACU on Reader1 and Reader2 terminals. The following should be defined:

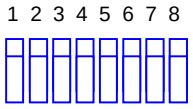
Single door controller:	Door 1 Keypad - Reader 1 IN/OUT
	Keypad - Reader 2 IN/OUT
Double door controller:	Door 1 Keypad - Reader 1 IN/OUT
	Door 2 Keypad - Reader 2 IN/OUT

The keypad type must be a Rosslare format keypad.

A keypad has to be connected for any reader mode that requires PIN code entries, such as Card or PIN, PIN only or Card and PIN (Secured mode).

Dipswitch Settings Configuration

The ACU Dipswitch controls a number of operating parameters including the device address and baud rates for serial communication.



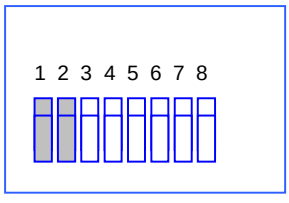
Power down the ACU before making changes in the dipswitch settings. Restart the ACU after modifications are made. The new settings are automatically defined after power up.

The following is a list of dipswitch numbers and their functions:

Dipswitch	Function
1-2	Set ACU baud rate
3	Sets ACU type (single door or double door controller)
4-8	Set ACU address

ACU Baud Rate

The ACU serial port baud rate, set in dipswitches one and two, defines the communication speed for connecting with a PC in a network connection .



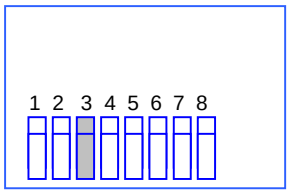
The following lists switch 1 and 2 status and baud rate:

Switch 1	Switch 2	Baud Rate
Off	Off	9600
Off	On	19200
On	Off	38400
On	On	56000

The ACU baud rate must be identical to the host PC's serial port baud rate

ACU Type

The ACU type is defined using the third dipswitch. Both the single and double can be set.



- **Off** - defines single door controls
- **On** - defines a double door controls

Single Door Controller

This access type has two readers, IN and OUT, as follows:

Outputs:	Door lock strike
	Auxiliary output
	Alarm output
	General purpose output
Inputs:	Release to exit
	Door monitor input
	Tamper input
	General purpose input

For more information refer to the Input Output chapter, page 7.

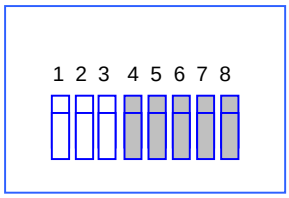
Double Door Controller

This access type has two readers, IN and OUT, as follows:

Outputs:	Door 1 lock strike
	Door 1 alarm output
	Door 2 lock strike
	Door 2 alarm output
Inputs:	Release to exit door1
	Door 1 monitor input
	Release to exit door 2
	Door 2 monitor input

ACU Addressing

The dipswitch is used to select the binary coded ACU address.



The ACU address is defined in the Veritrax software. For successful communications, the dipswitch must be defined with the same address.

The following table gives all the 32 dipswitch settings available.

Address	Switch 4	Switch 5	Switch 6	Switch 7	Switch 8
1	Off	Off	Off	Off	Off
2	Off	Off	Off	Off	On
3	Off	Off	Off	On	Off
4	Off	Off	Off	On	On
5	Off	Off	On	Off	Off
6	Off	Off	On	Off	On
7	Off	Off	On	On	Off
8	Off	On	On	On	On
9	Off	On	Off	Off	Off
10	Off	On	Off	Off	On
11	Off	On	Off	On	Off
12	Off	On	Off	On	On
13	Off	On	On	Off	Off
14	Off	On	On	Off	On
15	Off	On	On	On	Off
16	On	On	On	On	On
17	On	Off	Off	Off	Off
18	On	Off	Off	Off	On
19	On	Off	Off	On	Off
20	On	Off	Off	On	On
21	On	Off	On	Off	Off
22	On	Off	On	Off	On
23	On	Off	On	On	Off
24	On	Off	On	On	On
25	On	On	Off	Off	Off
26	On	On	Off	Off	On
27	On	On	Off	On	Off
28	On	On	Off	On	On
29	On	On	On	Off	Off
30	On	On	On	Off	On
31	On	On	On	On	Off
32	On	On	On	On	On

Communications

Communication lines are used to upload and download information between the ACU and the Veritrax software. Communication between the ACU and PC is displayed by the system's two LEDs.

- The RX LED flashes when the controller receives data
- The TX LED flashes when the controller transmits data

🗋 *The ACU address is defined in the Veritrax software. For successful communications, the dipswitch must be defined with the same address.*

There are two connection modes:

- Serial
  - RS232
  - RS485
- LAN

Serial Connection

The PC Serial Port controlling the ACU is assigned in the Network Properties in the Veritrax software. By default the default is set to 9600 for direct connection to the PC using the standard RS232 interface.

✦ **RS232 Connection**

ACU	DB9 Connector	DB25 Connector
GND	Pin 5	Pin 7
Tx	Pin 2	Pin 3
Rx	Pin 3	Pin 2

🗋 *The RS232 connection can only be used for one ACU. The distance between the PC and ACU can be no more than 150 feet (50 meters). If the baud rate is increased to 56000 the distance can be up to 30 feet (10 meters). J1 must be in the right position to select the RS232 communication.*

RS485 Connection to the PC

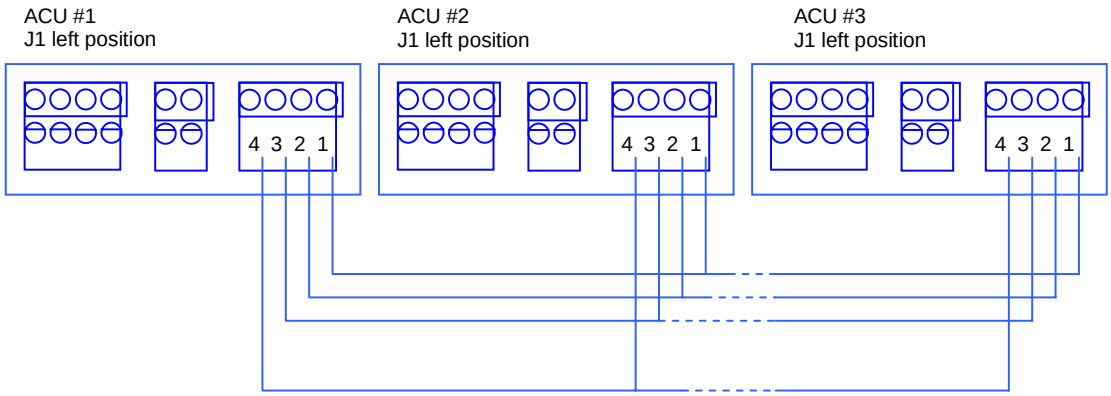
Up to 32 ACU's can be linked together and connected to a single communication port on the PC.

The RS485 interface must be used when multiple controllers are connected. The serial port used to control the ACU is assigned in the Veritrax software Network Properties dialog box.

ACU supports the two-wire RS485 interface. RS485 interface enables the distance between the ACU and PC to be extended up to 4000 feet (1300) meters. The data line wiring must be in daisy chain formatting with one control unit following another. The first ACU connecting to the PC must use the MD14 RS485 to RS232 adaptor.

✦ Daisy Chain

Communication lines must be wired in daisy chain format with one ACU following another.



J1 must be in the left position.

✦ Termination Resistors

At each end of the data line a termination resistor of 130 ohm is required across the L1 and L2 connections.

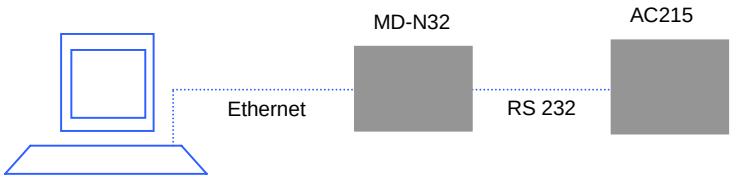
Communication through the Local Area Network (LAN)

The TCP/IP connection, used to control the ACU, is assigned in the Veritrax software's Network Properties dialog box.

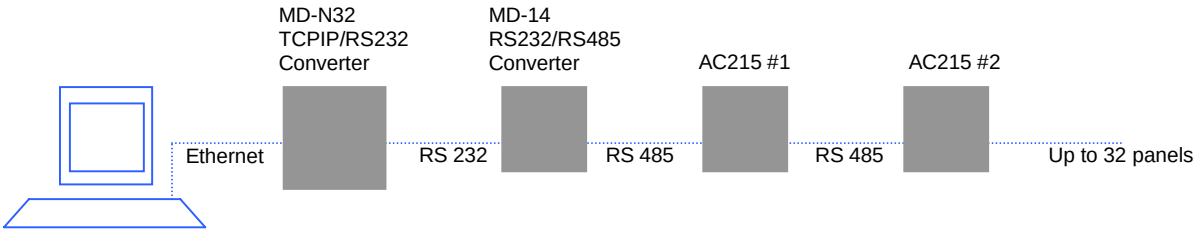
The PC running the VeriTrax software can communicate with the ACU through the LAN card inside the PC. The ACU connects to the LAN using Rosslare MD-N32 TCP/IP to RS232 gateway converter. MD-N32 can be connected in any legal network address in the Local Area Network.

The following type of connection is used when a LAN network already exists and therefore the long RS485 network is not required. This schematic illustrates the connection of a single AC215 to the PC using the LAN network.

MD-N32 must be first configured by Rosslare's Netconfig software. The setting is stored in a non volatile memory in the MD-N32.



Multiple ACUs can be connected by adding an RS485 converter (MD-14) between the RS485 ACUs network and MD-N32 converter.

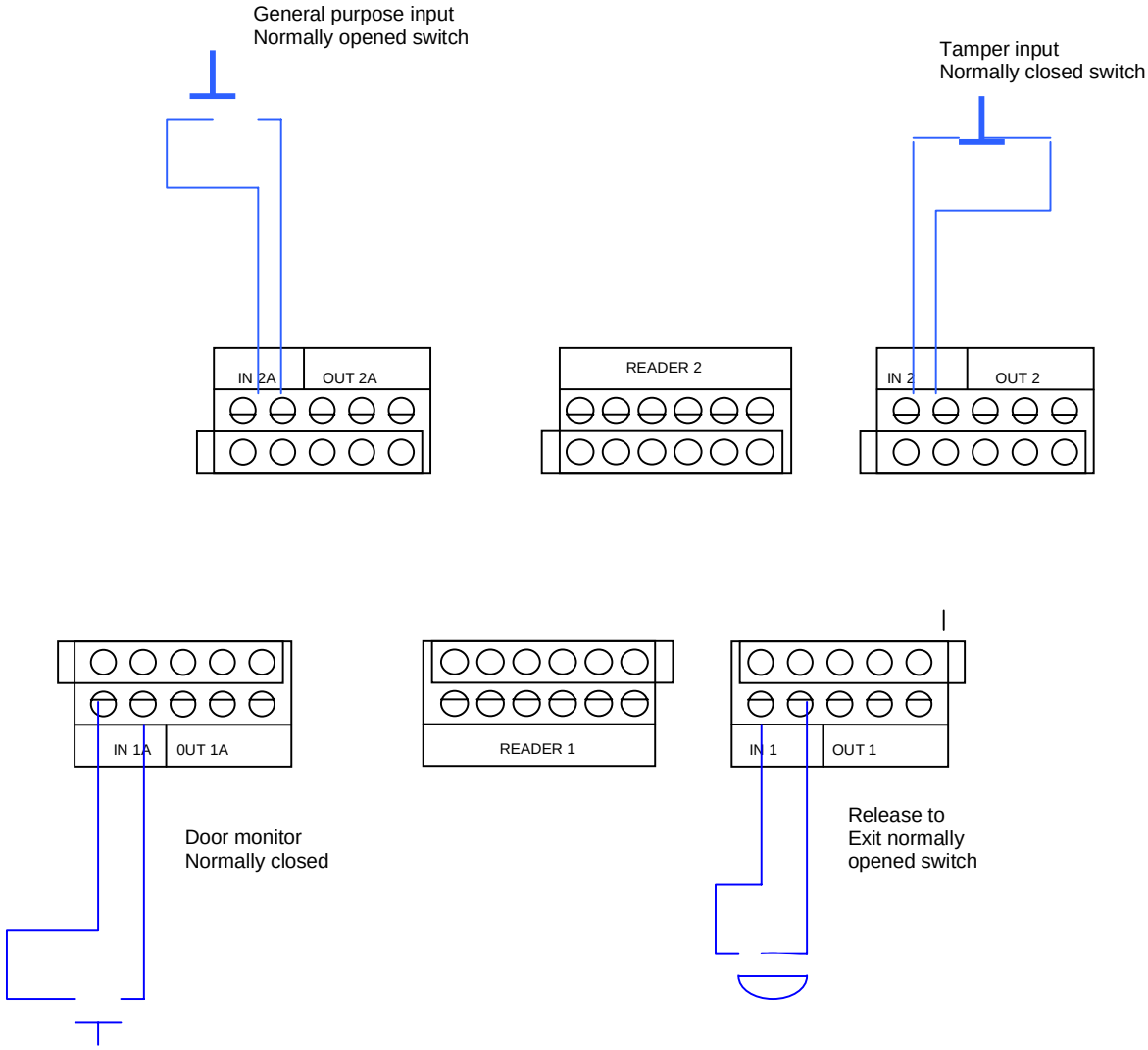


For more information please refer to MD-N32 data sheet and Rosslare Netconfig software.

Wiring

Inputs

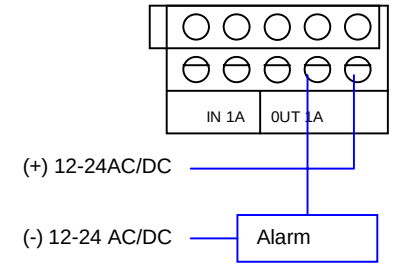
The following diagrams illustrate wiring for four AC215 inputs. For further details refer to the Inputs and Outputs chapter page 7..

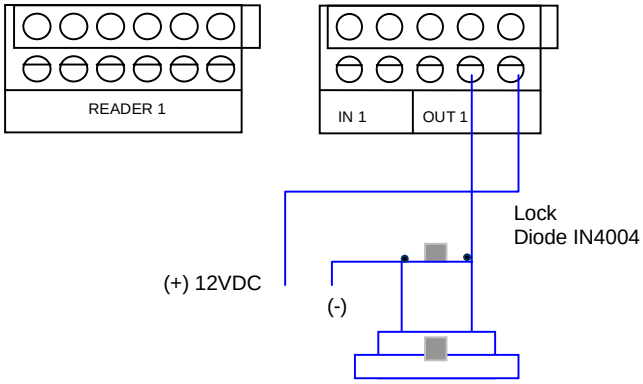


Outputs

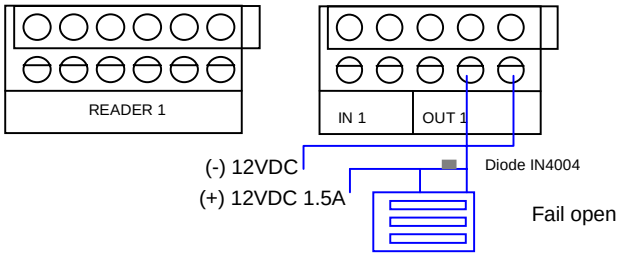
The following diagrams illustrate wiring for two main types of 12VDC electric release mechanisms. Other electrical devices can be switched using the voltage free relay contacts. .

Door Lock – Fail Closed





Door Lock – Fail Open

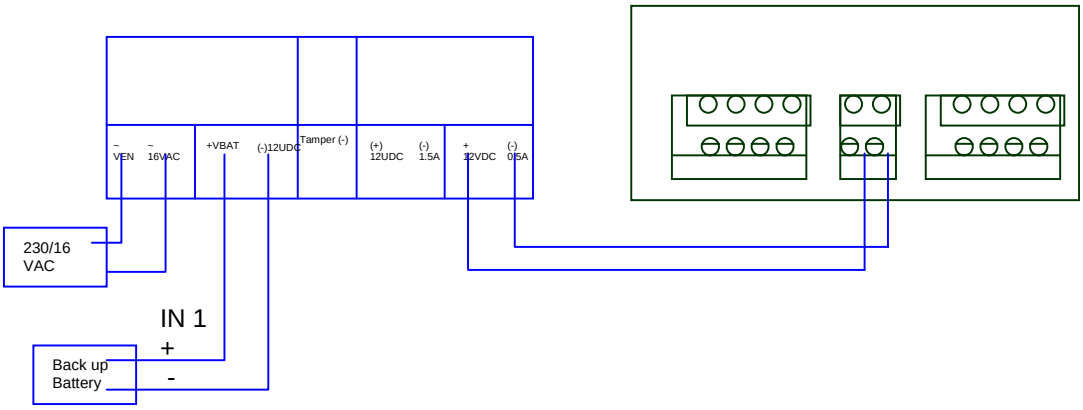


Power Supply

The following diagram illustrates wiring between the PS-14 power supply and the AC215. It is recommended to add a 12VDC lead acid backup battery to backup power if the main fails.

If the main output is 12VDC wire it to the (PS-14), otherwise support your power supply according to output requirements.

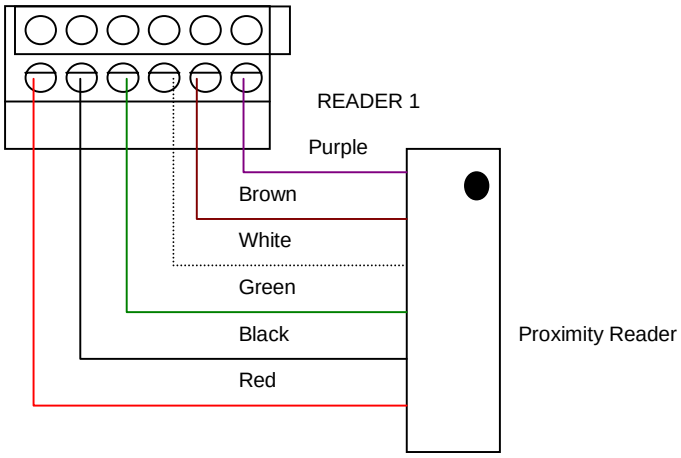
For further information refer to the Output requirements page 7..



Reader

Proximity and keypad readers are supplied with a limited cable. The color of the cable covering represents the cable's function. .

When extending cable distance be careful with the color of the cable cover. The distance is limited by the Wiegand standard.



Key	
+V	Red
(-)	Black
D0	Green
D1	White
G.LED	Brown
Tamper	Purple

Accessories

Proximity Readers

AY-X09 Series PIN Readers

✦ **AY-C09 / AY-D09**

- For indoor use
- Slim stylish design (Mullion)
- Includes LED indicator
- Audible buzzer indicator
- Built in tamper (w/ Rosslare controllers)
- Includes bell button (w/ Rosslare controllers)

AY-X11 Series Prox Readers w/ Bell

✦ **AY-C11 / AY-D11**

- Reading distance: 8 to 10cm
- RF modulation: ASK at 125 kHz
- For indoor use
- Slim stylish design (USA gang box)
- Bi-color light indicator
- Audible buzzer indicator
- Built in tamper (w/ Rosslare controllers)
- Includes bell button (w/ Rosslare controllers)

AY-X12 Series Prox Readers

✦ **AY-C11 / AY-D11**

- Reading distance: 8 to 10cm
- RF modulation: ASK at 125 kHz
- For indoor use
- Slim stylish design (USA gang box)
- Bi-color light indicator
- Audible buzzer indicator (w/ Rosslare controllers)
- Built in tamper (w/ Rosslare controllers)

AY-X12 Series Prox Readers

✦ **AY-H12 / AY-J12 / AY-K12 / AY-L12 / AY-M12**

- Reading distance: 7 to 12cm
- RF modulation: ASK at 125 kHz
- For outdoor use
- Slim stylish design (UK or USA gang box, Mullion)
- Bi-color light indicator
- Includes LED control input
- Audible buzzer indicator
- Built in tamper output

AY-X19 Series Pin & Prox Readers

✦ **AY-C19 / AY-D19**

- Reading distance: 8 to 10cm
- RF modulation: ASK at 125 kHz
- For indoor use
- Slim stylish design (USA gang box)
- Bi-color light indicator
- Audible buzzer indicator
- Built in tamper (w/ Rosslare controllers)
- Includes bell button (w/ Rosslare controllers)

AY-L23 RF Reader

✦ **AY-L23**

- Read range: 70 meters (200 feet)
- For outdoor use (waterproof)
- Frequency 433MHz
- Slim stylish design (Mullion)
- Bi-color LED indicator
- LED control
- Audible buzzer indicator
- Size: 145mm x 43mm x 20mm
- Used with the SA-26 wireless remote

Appendix

Connecting Between MD-N32 & AC-215

Hardware Requirements

- Standard LAN cable - RJ45 plugs in both sides.
- Rosslare's MD-14.
- Rosslare's MD-N32 (only one unit required).
- Rosslare's AC-215.

Instructions Manual

Notes

1. The next connection instructions relates to an example of connecting one unit of Rosslare's AC-215 to one unit of MD-N32.
   The AC-215 is managed by a PC, running Rosslare's VeriTrax PC S/W. This PC has to connected to the same LAN which the MD-N32 was connected.
2. Before setting – ask your network administrator for one, free IP Addresses and subnet mask, which has to be used here.

Connections

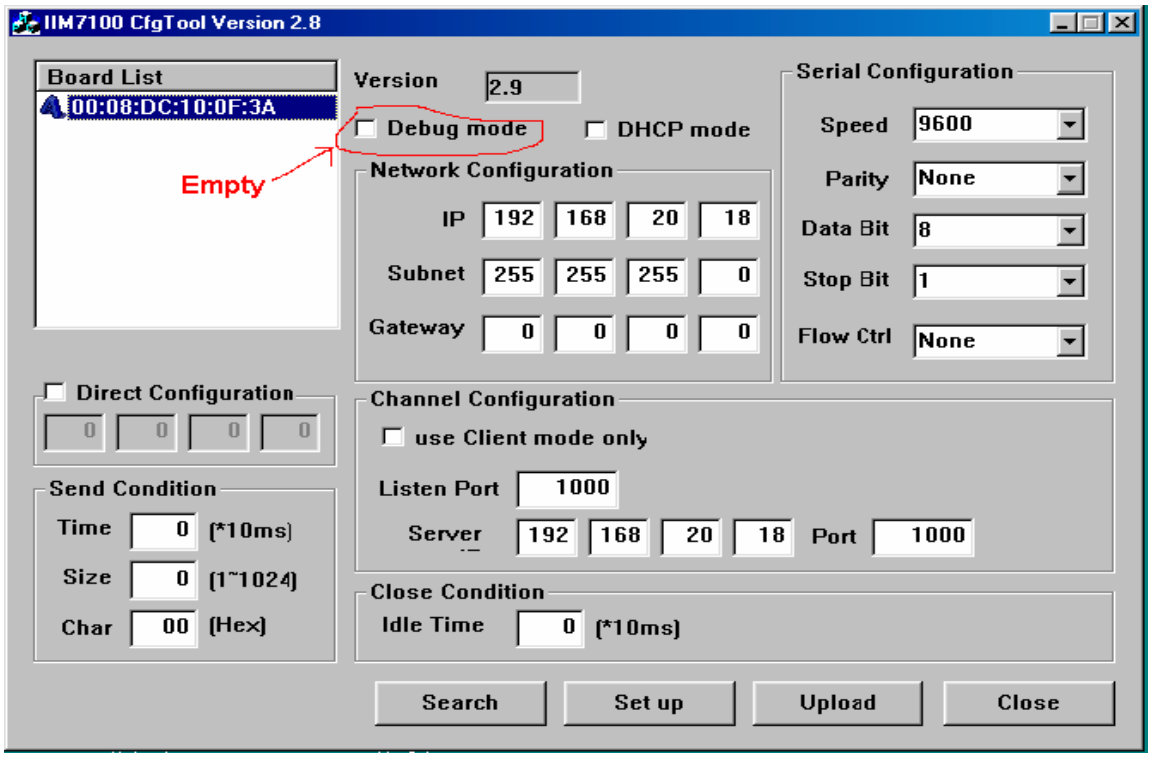
1. Connect the MD-N32 to the LAN by using the LAN cable through the RJ-45 connector. Make sure that the LINK LED (Green) is on.
2. Connect the AC-215's RS-485 outlet to Rosslare's MD-14 (RS485 to RS-232 Converter) .
   Connect the DB9 jack of the MD-14 to the DB9 jack of the MD-N32.

Note : Make sure that J1 is set to RS485 Mode. If you make any changes, resetting the AC-215 is necessary.

Running the MD-32 configuration Software

1) Run the PC software: "IIM_CfgTool".
2) Click on the tab: "Search".
   Make sure that you see the right MD-N32's MAC Address on the “Board List” area .
3) Select the MAC Address of the unit that connects to the AC-215.
4) Make sure to empty the "Debug mode" tab (must to do when working with AC-215).
5) At the "Network Configuration" area, type the IP Address and Subnet which the network administrator supplied you.
6) In the "Channel Configuration" area, leave the "use client mode only" empty.
   At the tab of the "Listen Port " type 1000.
   At the tab of "Server" type again the same IP Address and the number of the Port (1000).
7) In the "Serial Configuration" area type the serial configuration (Usually: 9600/None/8/1/None).
8) Click the "Set Up" tab to send the configuration to the unit.

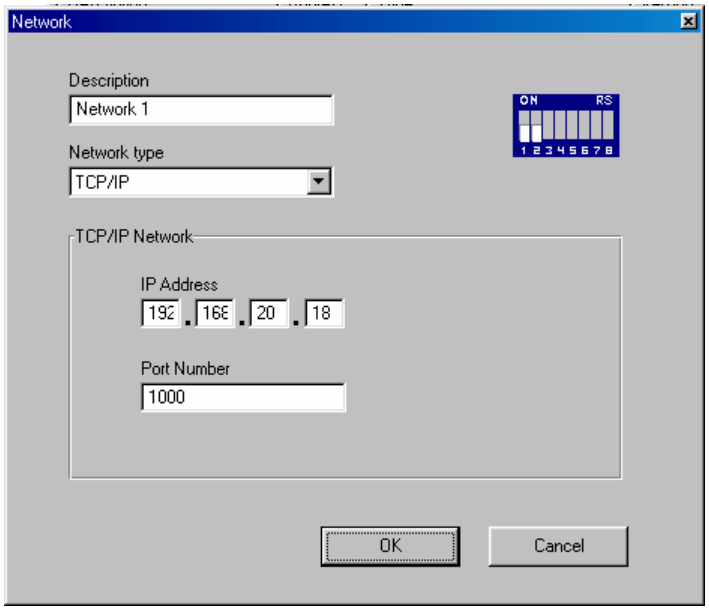
* Configuration Example

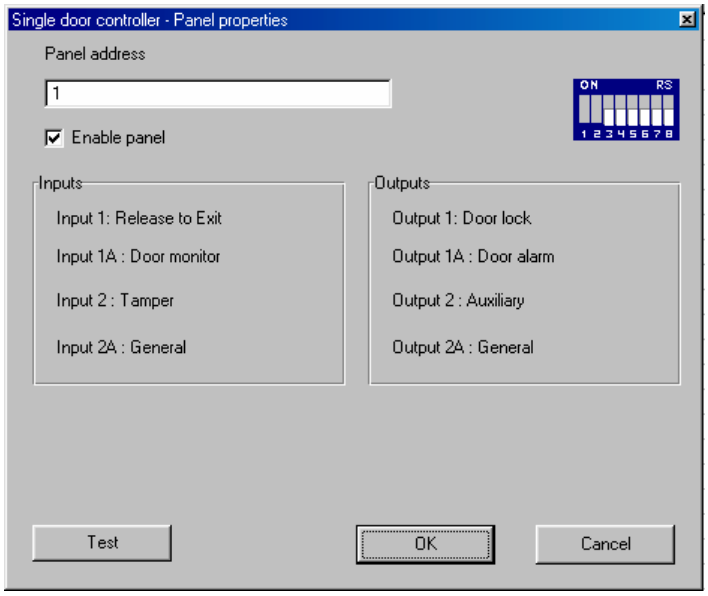


Running and configuring VeriTrax

On the PC (That connects to the same LAN as the MD-N32)
run the VeriTrax SW.
Configure a new Network .The network type should be TCP/IP
(as shown on the example below).
Type the same IP Address and port number that you configured on the MD-N32.
Press OK .
Configure a new Panel and Press OK .

Note: The examples below relates to a VeriTrax SW which don't have any previous defined networks and panels.





Power Supply Specifications

ACU uses the PS-14 power supply.

Transformer

Input voltage:	230V AC
Output voltage:	16V AC
Output current:	Maximum: 2.5A (40VA)

PS-14 Power Supply

Input voltage/current:	16V AC/2.5A
From transformer	
Output voltage1:	13.8V
Backup battery charger	(12VDC/300mA)
Output voltage #2:	12VDC/0.5A
ACU	
Output voltage #3:	12VDC/1.8A
To lock strike	

PS-14 Power Supply Indication

Tamper output: (open collector)	Indicates faulty power

PS-14 Power LEDs

Power in (AC) Green LED1	Main power
Power out (DC) Red LED2	Low voltage
Charger (BAT) Red LED3	Back up battery low voltage

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